

## Taxonomic Notes on Vascular Plants in Japan and Its Adjacent Regions (II)

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New combinations of 63 taxa of vascular plants in Japan and its adjacent regions are proposed: one pteridophyte and 62 angiosperms, that were during updating of the database YList ([http://bean.bio.chiba-u.jp/bgplants/ylist\\_main.html](http://bean.bio.chiba-u.jp/bgplants/ylist_main.html)) of the scientific and Japanese names of Japanese vascular plants and pteridophytes. Taxonomic and nomenclatural comments are given on (66) *Ptisana boninensis*, (70) *Cinnamomum yabunikkei*, (81) *Arabidopsis halleri* subsp. *gemmifera*, (82) *Catolobus ligulifolia*, (91) *Elaeocarpus zollingeri*, (103) *Pseudognaphalium formosanum*, (107) *Anthoxanthum nitens*, and (109) *Sacciolepis spicata*. (Continued from J. Jpn. Bot. **80**(6): 323–333, 2005)

**Key words:** Database, Japan, new combinations, nomenclature, vascular plants.

The WEB BGPlants Index or YList ([http://bean.bio.chiba-u.jp/bgplants/ylist\\_main.html](http://bean.bio.chiba-u.jp/bgplants/ylist_main.html)) for Japanese names and scientific names of Japanese Plants has been in operation since 2003. For updating the database the author proposed 81 new combinations in 65 species (Yonekura 2005). This paper aims to supply further new combinations for the same purpose. The serial numbers employed here are continued from the previous paper. For more detailed information on synopsis, see WEB.

### *Pteridophyta*

#### *Marattiaceae*

(66) When palaeotropical species of *Marattia* were placed on a new genus *Ptisana* by Murdock (2008), *M. boninensis* Nakai and *M. tuyamae* Nakai from Japan were not combined as their types were not available for his study. Here I make a new combination *Ptisana boninensis* (syn. *Marattia tuyamae*) as

it is considered a distinct species from its closest ally *P. ternatea* (de Vriese) Murdock as stated by Ohba (1971).

*Ptisana boninensis* (Nakai) Yonek., comb. nov.

*Marattia boninensis* Nakai in J. Jpn. Bot. **13**: 3, figs. 1 & 2 (1937).

Nom. Jap.: Ryûbintai-modoki.

### *Spermatophyta – Angiospermae*

#### *Myricaceae*

(67) *Morella rubra* Lour. f. *alba* (Makino)

Yonek., comb. nov.

*Myrica rubra* Siebold & Zucc. var. *β. alba* Makino in Bot. Mag. (Tokyo) **26**: 394 (1912).

Nom. Jap.: Shiro-yama-momo, Shiro-momo.

#### *Fagaceae*

(68) *Castanopsis sieboldii* (Makino) Hatus. ex T. Yamaz. & Mashiba f. *awanoi* (Yanagita) Yonek., comb. nov.

*Shiia sieboldii* (Makino) Makino var. *awanoi* Yanagita in J. Jpn. Bot. **10**: 646 (1934).

*Castanopsis cuspidata* (Thunb.) Schottky var. *sieboldii* Makino f. *awanoi* (Yanagita) Nakai in J. Jpn. Bot. **15**: 265 (1939).

Nom. Jap.: Shidare-jii.

#### Caryophyllaceae

(69) *Silene banksia* (Dennst.) Mabb. f. *verticillata* (Makino) Yonek., comb. nov.

*Lychnis coronata* Thunb. var. *verticillata* Makino in Inuma, Somoku-Dzusetsu ed. 2, **2**: 670 (1910).

Nom. Jap.: Kuruma-ganpi.

#### Lauraceae

(70) *Cinnamomum yabunikkei* H. Ohba f. *pilosum* (Hatus.) Yonek., comb. nov.

*Cinnamomum japonicum* Siebold ex Nakai f. *pilosum* Hatus. in J. Geobot. (Kanazawa) **24**: 37 (1976).

Nom. Jap.: Usuge-yabu-nikkei.

Ohba (2006) gave a new name *Cinammomum yabunikkei* H. Ohba for a species which had been known under the name *C. japonicum* Siebold ex Nakai (Ohwi 1965, Momiyama 1989) or *C. tenuifolium* Sugim. (Hara 1977, Liao 1996) as the former was a later homonym (see Hara 1977) and the latter was invalid because it was published in an ephemeral Journal (Honda et al. 1980). I initially considered *C. tenuifolium* was validly published by Hara (1977) by citation of short Japanese diagnosis of *C. japonicum* var. *tenuifolium* Makino & Nemoto (1931) as the basionym, but finally I concluded that Hara (1977) failed to validate the former by designating Sugimoto's specimen as the lectotype of *C. tenuifolium*, which was apparently different from Makino and Nemoto's (1931) type. Therefore, *C. yabunikkei* is the correct name of the species if it is regarded as a species distinct from *C. pseudopedunculatum* Hayata in Ogasawara Islands and from *C. insularimontanum* Hayata in Taiwan. Li and Pai (1984) and Li et al. (2008) used the name

*Cinnamomum japonicum* Siebold (1830) for the species at broad sense including *C. pseudopedunculatum* and *C. insularimontanum*, but the name *Cinnamomum japonicum* Siebold is not only illegitimate but also to be applied to Rubiaceae species (Hara 1977). If treated broadly then *C. insularimontanum* Hayata (1913) is the correct name of this taxon (Kitamura and Murata 1979).

#### Magnoliaceae

(71) *Magnolia formosana* (Kaneh.) Yonek., comb. nov.

*Michelia compressa* (Maxim.) Sarg. var. *formosana* Kaneh. in Trans. Nat. Hist. Soc. Taiwan **20**: 384 (1930).

*Michelia formosana* (Kaneh.) Masam. & Suzuki in Ann. Rep. Taihoku Bot. Gard. **3**: 57 (1933); T. Yamaz. in J. Jpn. Bot. **75**: 375 (2000).

*Michelia japonica* auct. non (Maxim.) Sarg.: H. Keng, Fl. Taiwan **2**: 389, t. 346 (1976), ed. 2, **2**: 412, t. 192, photo 157 & 158 (1996); K. Ueda in K. Iwats. & al., Fl. Jap. **2a**: 233 (2006).

Nom. Jap.: Taiwan-ogatama.

#### Schisandraceae

(72) *Schisandra repanda* (Siebold & Zucc.) Radlk. f. *discolor* (Nakai) Yonek., comb. nov.

*Schisandra discolor* Nakai, Fl. Sylv. Kor. **20**: 103 (1933).

*Schisandra nigra* Maxim. var. *hypoglaucha* Makino, Ill. Fl. Nippon: 588, in textu sub f. 1614 (1940), cum diagn. jap.

*Schisandra repanda* (Siebold & Zucc.) Radlk. f. *hypoleuca* Ohwi, Fl. Jap. ed. Engl.: 469 (1965), nom. nud.; Kitam. & Murata, Col. Ill. Woody Pl. Jap. **2**: 212 (1979), nom. nud.; Ohwi & Kitag., New Fl. Jap.: 738 (1983), nom. nud.

Nom. Jap.: Urajiro-matsubusa.

#### Ranunculaceae

(73) *Clematis japonica* Thunb. var. *villosa* (Ohwi) Tamura [in Satake & al., Wild Flow. Jap. Herb. Pl. **2**: 72 (1982), comb. nud.] ex Yonek., comb. nov.

*Clematis japonica* Thunb. f. *villosula* Ohwi, Fl. Jap.: 514, in adnot. (Mar. 1953), cum diagn. latin., in Bull. Natn. Sci. Mus. Tokyo no. 33: 71 (Aug. 1953).

Nom. Jap.: Ke-Hanshozuru.

(74) *Clematis tosaensis* Makino f. *purpureofusca* (Hisauti) Yonek., comb. nov.

*Clematis japonica* Thunb. var. *brevipedicellata* Makino f. *purpureofusca* Hisauti in J. Jpn. Bot. 8: 218 (1937).

*Clematis tosaensis* Makino f. *fuscopurpurea* Sugaya in Ecol. Rev. 14(2): 177 (1956), syn. nov.

Nom. Jap.: Murasaki-azuma-hanshozuru.

(75) *Hepatica nobilis* Schreb. f. *japonica* (Nakai) Yonek., stat. nov.

*Hepatica nobilis* Schreb. var. *japonica* Nakai in J. Jpn. Bot. 13: 307 (1937).

Nom. Jap.: Misumi-so.

(76) *Ranunculus ternatus* Thunb. var. *lutchuensis* (Nakai) [Tamura (in sched.) ex Hatus., Fl. Ryukyus: 279 (1971), comb. nud.] Yonek., comb. nov.

f. *lutchuensis* (Nakai) Yonek., stat. nov.

*Ranunculus lutchuensis* Nakai in Bot. Mag. (Tokyo) 42: 25 (1928).

*Ranunculus extorris* Hance var. *lutchuensis* (Nakai) Tamura [in Satake & al., Wild Flow. Jap. Herb. Pl. 2: 78 (1982), comb. nud.] ex Shimabuku, Checkl. Vasc. Fl. Ryukyu Isls. rev. ed.: 184 (1997).

Nom. Jap.: Ryûkyû-hikinokasa.

f. *izumikawae* (Ta. Takara) Yonek., comb. nov.

*Ranunculus extorris* Hance var. *lutchuensis* (Nakai) Tamura ex Shimabuku f. *izumikawae* Ta. Takara in J. Phytogeogr. Taxon. 52: 89, fig. 1 (2004).

Nom. Jap.: Yae-ryûkyû-hikinokasa.

(77) *Trautvetteria carolinensis* (Walter) Vail var. *japonica* (Siebold & Zucc.) T. Shimizu

f. *breviloba* (Nakai) Yonek., comb. nov.

*Trautvetteria japonica* Siebold & Zucc. f. *breviloba* Nakai in Bot. Mag. (Tokyo) 45: 118 (1931).

Nom. Jap.: Myôgi-momiji-karamatsu.

f. *japonica* (Siebold & Zucc.) Yonek., stat. nov.

*Trautvetteria japonica* Siebold & Zucc. in Abh. Akad. Nat. Wiss. Bayern 4(2): 184 (1845).

Nom. Jap.: Momiji-karamatsu.

#### Berberidaceae

(78) *Epimedium koreanum* Nakai var. *coelestre* (Nakai) Yonek., comb. nov.

*Epimedium coelestre* Nakai in J. Jpn. Bot. 20: 73 (1944).

Nom. Jap.: Kumoi-ikarisô.

#### Aristolochiaceae

(79) *Asarum takaoi* F. Maek. var. *austrokiense* (Kinoshita) Yonek., comb. nov.

*Heterotropa takaoi* F. Maek. var. *austrokiensis* Kinoshita in J. Phytogeogr. Taxon. 38: 7, f. 1 & 2 (1990).

Nom. Jap.: Kinan-kan'aoi.

#### Papaveraceae

(80) *Corydalis fumariifolia* Maxim. subsp. *azurea* Lidén & Zetterl.

f. *azurea* (Lidén & Zetterl.) Yonek., stat. nov.

*Corydalis fumariifolia* Maxim. subsp. *azurea* Lidén & Zetterl. in Lidén in Willdenowia 26: 27 (1996).

Nom. Jap.: Ezo-engosaku.

f. *candida* Yonek., nom. nov.

Based on: *Corydalis ambigua* Chem. & Schltdl. var. *albiflora* I. Yamam. & Tsukam., Fl. Hakodate: 43 (1932).

*Corydalis ambigua* Cham. & Schltdl. f. *albiflora* (I. Yamam. & Tsukam.) Honda, Nom. Pl. Jap. ed. emend.: 376 (1957), non *C. fumariifolia* Maxim. f. *albiflora* Y. N. Lee (2004).

Nom. Jap.: Shirobana-ezo-engosaku.

*Brassicaceae (Cruciferae)*

(81) When Kadota (2007) described a new species *Arabidopsis umezawana* Kadota, he simultaneously raised its close ally *A. halleri* (L.) O'Kane & Al-Shehbaz subsp. *gemmifera* (Matsum.) O'Kane & Al-Shehbaz as a distinct species, *A. gemmifera* (Matsum.) Kadota as the latter has gemmifery and more slender stems than European *A. halleri*. *Arabidopsis halleri* subsp. *gemmifera* growing in higher mountains of southern part of Primorsky region in Russian Far East, North Korea and Northeast China, however, rarely represents gemmifery and approaches *A. halleri* in gross morphology. The situation led to misidentification of such plants as *A. halleri* (as *Arabis halleri*) in Korean and Chinese floras (Nakai 1914, Lan 1987). Such plants were named *Arabis coronata* Nakai (Kitagawa 1979, Fu et al. 1980, Lee 1996), but Zhou et al. (2001) regarded the name as a synonym of *Arabidopsis halleri* subsp. *gemmifera*, a treatment followed by Kadota (2007). Plants similar to *Arabis coronata* are also rarely found in alpine region of Japan as illustrated by Makino (1940) under *Arabis halleri*, but such plants are connected with the typical form of *Arabidopsis halleri* subsp. *gemmifera* by presence of numerous intermediates. Considering the wide range of morphological variation observed within *A. kamchatica* (DC.) K. Shimizu & Kudoh, the morphological distinction among taxa recognized by Kadota (2007) seems weak for recognition at species level. I consider both *Arabis coronata* and *Arabidopsis umezawana* as varieties of *Arabidopsis halleri* subsp. *gemmifera*, as the former two are more or less isolated from typical forms of the latter geographically or ecologically.

*Arabidopsis halleri* (L.) O'Kane & Al-Shehbaz subsp. *gemmifera* (Matsum.) O'Kane & Al-Shehbaz

var. *coronata* (Nakai) Yonek., comb. et stat. nov.

*Arabis coronata* Nakai in Bot. Mag. (Tokyo)

28: 302 (1914).

Distr.: North Korea and NE China.

var. *senanensis* (Franch. & Sav.) Yonek., comb. nov.

*Arabis halleri* L. var. *senanensis* Franch. & Sav., Enum. Pl. Jap. 2: 279 (1897).

f. *gemmifera* (Matsum.) Yonek., stat. nov.

*Cardamine gemmifera* Matsum. in Bot. Mag. (Tokyo) 13: 49 (1899).

Nom. Jap.: Hakusan-hatazao, Tsuru-tagarashi.

f. *alpicola* (H. Hara) Yonek., comb. nov.

*Arabis gemmifera* (Matsum.) Makino var. *alpicola* H. Hara in J. Jpn. Bot. 12: 901 (1936).

Nom. Jap.: Ibuki-hatazao.

var. *umezawana* (Kadota) Yonek., comb. et stat. nov.

*Arabidopsis umezawana* Kadota in J. Jpn. Bot. 82: 232, f. 1–3 (2007).

Nom. Jap.: Rishiri-hatazao.

(82) I follow Al-Shehbaz (2005) who gave generic status to *Arabis pendula* as *Catolobus pendula* (L.) Al-Shehbaz. Al-Shehbaz (2005) regarded *Catolobus* as monotypic genus, but I consider *Arabis ligulifolia* Nakai (syn. *A. subpendula* Ohwi) as a good species distinct from *Catolobus pendula* (Shimizu 1992).

*Catolobus ligulifolia* (Nakai) Yonek., comb. nov.

*Arabis ligulifolia* Nakai in Bot. Mag. (Tokyo) 33: 51 (1919).

Nom. Jap.: Hera-hatazao (Todai-hatazao).

*Saxifragaceae*

(83) *Philadelphus satsumi* Siebold ex Lindl. & Paxton f. *nikoensis* (Rehder) Ohwi [Fl. Jap. ed. Engl.: 512 (1965), comb. nud.] ex Yonek., comb. nov.

*Philadelphus satsumi* var. *nikoensis* Rehder, Man. Cult. Tr. & Shr.: 275 (1927).

Nom. Jap.: Nikkô-baika-utsugi.

(84) *Saxifraga sendaica* Maxim. f. *laciniata* (Nakai ex H. Hara) Ohwi [Fl. Jap.: 599 (1953),

comb. nud., ed. Engl.: 502 (1965), comb. nud.; H. Ohba in K. Iwats. & al., Fl. Jap. **2b**: 48, in nota (2001), comb. nud.] ex Yonek., comb. nov.

*Saxifraga sendaica* Maxim. var. *laciniata* Nakai ex H. Hara in Nakai & Honda, Nov. Fl. Jap. **3**: 35, in danot. (1939).

Nom. Jap.: Momijiba-sendaishô.

#### Rosaceae

(85) *Neillia incisa* (Thunb.) S. H. Oh var. *macrophylla* (Hid. Takah.) Yonek., comb. nov.

*Stephanandra incisa* (Thunb.) Zabel var. *macrophylla* Hid. Takah. in Bull. Kanagawa Pref. Mus. Nat. Hist. no. 20: 13 (1991).

Nom. Jap.: Shima-kogome-utsugi.

(86) *Potentilla ancisthrifolia* Bunge var. *glabrata* (Nakai) Yonek., comb. nov.

*Potentilla dickinsii* Franch. & Sav. var. *glabrata* Nakai in Bot. Mag. (Tokyo) **32**: 106 (1918).

Distr.: Korea (Isl. Ulleung-do).

#### Fabaceae

(87) *Vicia unijuga* A. Braun var. *austrohigoensis* (Honda) Sugim. [Keys Herb. Pl. Jap. **1**: 294 & 736 (1965), comb. nud.] ex Yonek., comb. nov.

*Vicia austro-higoensis* Honda in Bot. Mag. (Tokyo) **53**: 333 (1939).

Nom. Jap.: Kumagawa-nanten-hagi.

#### Oxalidaceae

(88) *Oxalis griffithii* Edgew. & Hook.f. f. *rubriflora* (Makino) Sugim. [Keys Herb. Pl. Jap. **1** (Dicotyledons): 304 & 735 (1965), comb. nud.] ex Yonek., comb. nov.

*Oxalis acetosella* L. var. *japonica* (Franch. & Sav.) Makino f. *rubriflora* Makino in Bot. Mag. (Tokyo) **22**: 171 (1908).

Nom. Jap.: Benibana-miyama-katabami.

#### Anacardiaceae

(89) *Toxicodendron orientale* Greene subsp. *orientale* f. *rishiriense* (Nakai) Yonek., comb.

nov.

*Rhus rishiriensis* Nakai in Bot. Mag. (Tokyo) **22**: 67 (1922).

*Rhus ambigua* Lavaleé ex Dippel f. *rishiriensis* (Nakai) H. Hara, Enum. Spermaroph. Jap. **3**: 65 (1954).

Nom. Jap.: Tachi-tsutaurushi.

subsp. *hispidum* (Diels) Yonek., comb. nov.

*Rhus toxicodendron* L. var. *hispidum* Engl. in Diels in Bot. Jahrb. Syst. **29**: 433 (1900), "*hispidum*".

*Toxicodendron radicans* (L.) Kuntze subsp. *hispidum* (Engl.) Gillis in Rhodora **73**: 213, f. 37 (1971).

Distr. Taiwan and S China.

(90) *Toxicodendron trichocarpum* (Miq.) Kuntze f. *viride* (H. Hara) Yonek., comb. nov.

*Rhus trichocarpa* Miq. f. *viridis* H. Hara, Enum. Spermatoph. Jap. **3**: 67 (1954), '(Makino) H. Hara', cum diagn. latin.

Nom. Jap.: Ao-yama-urushi.

#### Elaeocarpaceae

(91) Gao and Tang (2006) considered *Elaeocarpus sylvestris* (Lour.) Poir. var. *ellipticus* (Thunb.) H. Hara (= *E. ellipticus* (Thunb.) Makino, non Sm.; *E. makinoi* Kaneh. & Hatus.) in Japan, South Korea and Taiwan as a distinct species from *E. sylvestris* (Lour.) Poir. in Continental China, which I follow here. Unfortunately, when Gao and Tang (2006) applied *E. decipiens* Hemsl. (1886) to the former after selecting a Wight specimen (K) from Loochoo as the lectotype, they overlooked an earlier name *E. zollingeri* K. Koch (1853) already mentioned by Hara (1951). As both *Elaeocarpus lanyuensis* C. E. Chang (nom. inval.) from Lanyu and *Elaeocarpus pachycarpus* Koidz. from Volcano Islands are considered as local varieties of *E. zollingeri* (Gao and Tang 2006, Ohba 1989), I propose new combinations here.

*Elaeocarpus zollingeri* K. Koch var. *changii* (Y. Tang) Yonek., comb. nov.

*Elaeocarpus decipiens* Hemsl. var. *changii* Y. Tang in Novon **16**: 60 (2006).

*Elaeocarpus lanyuensis* C. E. Chang in Quart. J. Chin. For. **21**(1): 113, f. 1 (1988), nom. inval.

*Elaeocarpus sylvestris* (Lour.) Poir. var. *lanyuensis* (C. E. Chang) C. E. Chang, Fl. Taiwan ed. 2, **3**: 720 (1993), nom. inval.

Distr.: Taiwan (Lanyu).

var. *pachycarpus* (Koidz.) Yonek., comb. nov.

*Elaeocarpus pachycarpus* Koidz. in Bot. Mag. (Tokyo) **32**: 253 (1918).

*Elaeocarpus sylvestris* (Lour.) Poir. var. *pachycarpus* (Koidz.) H. Ohba in J. Jpn. Bot. **64**: 328 (1989).

Nom. Jap.: Chigi, Kegi.

#### Apiaceae (Umbelliferae)

(92) *Spuriopimpinella koreana* (Y. Yabe) Kitag. f. *dissecta* (Nakai ex Hisauti) [Ohwi ex H. Ohba in K. Iwats. & al., Fl. Jap. **2c**: 279 (1999), comb. nud.] ex Yonek., comb. nov.

*Pimpinella nikoensis* Y. Yabe ex Makino & Nemoto var. *dissecta* Nakai ex Hisauti in J. Jpn. Bot. **13**: 460, f. 5 (1937).

*Spuriopimpinella nikoensis* (Y. Yabe ex Makino & Nemoto) Kitag. f. *dissecta* (Nakai ex Hisauti) Ohwi [Fl. Jap.: 846 (1953), comb. nud.] in Bull. Natn. Sci. Mus. Tokyo no. 33: 81 (1953).

Nom. Jap.: Hagoromo-hikage-mitsuba.

#### Pyrolaceae

(93) *Monotropastrum humile* (D. Don) H. Hara

f. *roseum* (Honda) Yonek., comb. nov.

*Monotropastrum globosum* Andres ex H. Hara f. *roseum* Honda, Nom. Pl. Jap. ed. emend.: 185 (nom.) & 380 (cum basionym) (1957).

Nom. Jap.: Benibana-ginryosô.

#### Primulaceae

(94) *Lysimachia maritima* (L.) Galasso, Banfi & Soldano in Atti Soc. Ital. Sci. Nat. Mus.

Civico Storia Nat. Milano **146**(2): 229 (2005).

var. *obtusifolia* (Fernald) Yonek., comb. nov.

*Glaux maritima* L. var. *obtusifolia* Fernald in Rhodora **4**: 215 (1902).

Nom. Jap.: Umi-midori, Shio-matsuba.

#### Asclepiadaceae

(95) *Vincetoxicum atratum* (Bunge) C. Morren & Decne. f. *viridescens* (H. Hara) Sugim. [Keys Herb. Pl. Jap. 1 (Dicotyledons): 441 & 737 (1965), comb. nud.] ex Yonek., comb. nov.

*Cynanchum atratum* Bunge f. *viridescens* H. Hara, Enum. Spermatoph. Jap. **1**: 149 (1949).

Nom. Jap.: Ao-funabarasô.

(96) *Vincetoxicum glabrum* (Nakai) Kitag. f. *rotundifolium* (Honda) Sugim. [Keys Herb. Pl. Jap. **1** (Dicotyledons): 441 & 737 (1965), comb. nud.] ex Yonek., comb. nov.

*Cynanchum glabrum* Nakai var. *rotundifolium* Honda in Bot. Mag. (Tokyo) **50**: 391 (1936).

Nom. Jap.: Maruba-kamome-zuru.

f. *viridescens* (Murata) Sugim. [Keys Herb. Pl. Jap. **1** (Dicotyledons): 441 & 737 (1965), comb. nud.] ex Yonek., comb. nov.

*Cynanchum glabrum* Nakai f. *viridescens* Murata [in Kitam. & Murata, Col. Ill. Herb. Pl. Jap. **1**: 208 (Apr. 1957), comb. nud.] in Kitam. & Murata in Acta Phytotax. Geobot. **17**(1): 12 (1957).

Nom. Jap.: Ao-tachi-kamomezuru.

#### Scrophulariaceae

(97) *Veronica ovata* Nakai subsp. *kiusiana* (Furumi) Albach

var. *diamantiaca* (Nakai) Yonek., comb. nov.

*Veronica diamantiaca* Nakai in Bot. Mag. (Tokyo) **31**: 29 (1917).

*Veronica kiusiana* Furumi subsp. *kiusiana* var. *diamantiaca* (Nakai) T. Yamaz. in J. Fac. Sci. Univ. Tokyo sect. 3, **7**(2): 136 (1957).

Distr.: Korea (Kangweon-do: Mts. Keumgang-san).

var. **glabrifolia** (Kitag.) Yonek., comb. nov.

*Veronica glabrifolia* Kitag. in J. Jpn. Bot. **17**: 238 (1941).

*Veronica kiusiana* Furumi var. *glabrifolia* (Kitag.) Kitag., Neo-Lineam. Fl. Manshur.: 572 (1979).

*Pseudolysimachion kiusianum* (Furumi) T. Yamaz. subsp. *kiusianum* var. *glabrifolium* (Kitag.) T. Yamaz. in Bull. Kwanak Arbor. **4**: 55 (1983).

Distr.: Korea and Northeastern China (Liaoning Prov.).

var. **kitadakemontana** (T. Yamaz.) Yonek., comb. nov.

*Veronica kiusiana* Furumi var. *kitadakemontana* T. Yamaz. in J. Fac. Sci. Univ. Tokyo sect. 3, **7**(2): 136 (1957).

*Pseudolysimachion ovatum* (Nakai) T. Yamaz. subsp. *kiusianum* (Furumi) T. Yamaz. var. *kitadakemontanum* (T. Yamaz.) T. Yamaz. in K. Iwats. & al., Fl. Jap. **3a**: 347 (1993).

Nom. Jap.: Kitadake-toranoo.

var. **kiusiana** (Furumi) Yonek., comb. nov.

*Veronica kiusiana* Furumi in Bot. Mag. (Tokyo) **30**: 122 (1916).

Nom. Jap.: Tsukushi-toranoo, Hiroha-toranoo.

(98) *Veronica ovata* Nakai subsp. *maritima* (Furumi) Albach

f. **angustata** (Satake) Yonek., comb. nov.

*Veronica subincanovelutina* Koidz. var. *angustata* Satake in J. Jpn. Bot. **27**: 137 (1952).

*Veronica kiusiana* Furumi subsp. *maritima* (Nakai) T. Yamaz. f. *angustata* (Satake) T. Yamaz. in J. Fac. Sci. Univ. Tokyo sect. 3, **7**(2): 136 (1957).

Nom. Jap.: Echigo-toranoo, Hosoba-echigo-toranoo.

f. **canescens** (Satake) Yonek., comb. nov.

*Veronica denkichiana* Honda var. *canescens* Satake in J. Jpn. Bot. **27**: 136 (1952).

*Veronica kiusiana* Furumi subsp. *maritima* (Nakai) T. Yamaz. var. *canescens* (Satake) T. Yamaz. in J. Fac. Sci. Univ. Tokyo sect. 3, **7**(2):

136 (1957).

*Pseudolysimachion ovatum* (Nakai) T. Yamaz. subsp. *maritimum* (Nakai) T. Yamaz. f. *canescens* (Satake) T. Yamaz. in K. Iwats. & al., Fl. Jap. **3a**: 348 (1993).

Nom. Jap.: Shirage-echigo-toranoo.

(99) *Veronica rotunda* Nakai var. *petiolata* (Nakai) T. Yamaz. f. *albiflora* (H. Hara) Yonek., comb. nov.

*Veronica spuria* L. f. *albiflora* H. Hara in J. Jpn. Bot. **10**: 366 (1936).

*Pseudolysimachion rotundum* (Nakai) Holub var. *petiolatum* (Nakai) T. Yamaz. f. *albiflorum* (H. Hara) T. Yamaz. in K. Iwats. & al., Fl. Japan **3a**: 350 (1993).

Nom. Jap.: Shirobana-hime-toranoo.

f. **petiolata** (Nakai) Yonek., stat. nov.

*Veronica komarovii* Monjuschko var. *petiolata* Nakai in J. Jpn. Bot. **19**: 19 (1943).

*Pseudolysimachion rotundum* (Nakai) Holub var. *subintegrum* (Nakai) T. Yamaz. f. *petiolatum* (Nakai) T. Yamaz. in Satake & al., Wild Fl. Jap. Herb. Pl. **3**: 109 (1982), comb. nud.

Nom. Jap.: Hime-toranoo.

(100) *Veronica schmidtiana* Regel var. *yezoalpina* Koidz. [ex Nakai, Veg. Mt. Apoi: 68 (1930), nom. nud.] ex H. Hara in J. Jpn. Bot. **9**: 516 (1933).

f. **yezoalpina** (Koidz. ex H. Hara) Yonek., stat. nov.

See above for the basionym.

Nom. Jap.: Ezo-miyama-kuwagata, Ezo-miyama-toranoo.

f. **exigua** (Takeda) Yonek., comb. nov.

*Veronica yezoalpina* Koidz. ex H. Hara f. *exigua* Takeda, Kozan-Shikubutsu-Zui ed. 2: 21, t. 72 (1937).

*Pseudolysimachion schmidtianum* (Regel) T. Yamaz. var. *yezoalpinum* (Koidz. ex H. Hara) T. Yamaz. f. *exiguum* (Takeda) T. Yamaz. in K. Iwats. & al., Fl. Jap. **3a**: 352 (1993).

Nom. Jap.: Apoi-kuwagata.

f. **pubescens** (H. Hara) Yonek., comb. nov.

*Veronica senanensis* Maxim. var. *pubescens* H. Hara in J. Jpn. Bot. **9**: 517 (1933).

*Pseudolysimachion schmidtianum* (Regel) T. Yamaz. var. *yezoalpinum* (Koidz. ex H. Hara) T. Yamaz. f. *pubescens* (H. Hara) T. Yamaz. in K. Iwats. & al., Fl. Jap. **3a**: 352 (1993).

Nom. Jap.: Ke-miyama-toranoo.

#### Plantaginaceae

(101) *Plantago camtschatica* Cham. ex Link f. *glabra* (Makino & Honda) Ohwi [Fl. Jap.: 1077 (1953), comb. nud.; T. Yamaz. in Satake & al., Wild Flow. Jap. Herb. Pl. **3**: 142 (1982), comb. nud.; in K. Iwats. & al., Fl. Jap. **3a**: 384 (1993), comb. nud.] ex Yonek., comb. nov.

*Plantago camtschatica* Cham. ex Link var. *glabra* Makino & Honda in Honda in Bot. Mag. (Tokyo) **49**: 695 (1935).

Nom. Jap.: Kenashi-ezo-obako.

#### Campanulaceae

(102) *Adenophora remotiflora* (Siebold & Zucc.) Miq. f. *hirsuta* (Honda) Sugim. [Keys Herb. Pl. Jap. **1** (Dicotyledons): 585 & 739 (1965), comb. nud.] ex Yonek., stat. nov.

*Adenophora remotiflora* (Siebold & Zucc.) Miq. var. *hirsuta* Honda in Bot. Mag. (Tokyo) **45**: 138 (1931).

Nom. Jap.: Ke-sobana.

#### Compositae (Asteraceae)

(103–104) Following recent splitting of *Gnaphalium* (Anderberg 1991), two combinations are needed for Taiwanese plants as shown below. Although Taiwanese endemic *Pseudognaphalium formosanum* has been confused with *Anaphalis adnata* (Wall. ex DC.) DC. in Taiwanese floras (as *Gnaphalium adnatum* Wall. ex DC.), the latter is the true *Anaphalis* (Kitamura 1968). Shimabuku (1997) reported *G. adnatum* from Okinawa Pref., but it is actually *P. luteoalbum* (L.) Hilliard & B. L. Burt (G. *luteoalbum* L.) (Hatusima and Amano 1994). *Anaphalis adnata*, widely distributed in the Himalayas through South China as well as

Luzon Island in Philippines, is rare in Taiwan (Kitamura 1968) and is absent from Japan.

(103) *Pseudognaphalium formosanum* (Hayata) Yonek., comb. nov.

*Gnaphalium formosanum* Hayata, Icon. Pl. Formosan. **8**: 58 (1919).

*Gnaphalium adnatum* auct. non Wall. ex DC.: Kitam. in J. Jpn. Bot. **21**: 57 (1947), in Mem. Coll. Sci. Kyoto Univ. ser. B, Biol. **29**: 47 (1957); H. L. Li, Fl. Taiwan **4**: 872, t. 1230 (1978); C. I. Peng & al., Fl. Taiwan ed. 2, **4**: 973, t. 462, photo 456 (1998).

Distr.: Taiwan.

(104) *Pseudognaphalium hypoleucum* (DC.) Hilliard & B. L. Burt

var. *amoyense* (Hance) Yonek., comb. nov.

*Gnaphalium amoyense* Hance in J. Bot. **6**: 174 (1868).

*Gnaphalium hypoleucum* DC. var. *amoyense* (Hance) Hand.-Mazz., Symb. Syn. **7**: 1105 (1936).

Distr.: Taiwan and S China.

#### Monocotyledoneae

##### Liliaceae

(105) *Barnardia japonica* (Thunb.) Roem. & Schult. f. *albiflora* (Satake) Yonek., comb. nov.

*Scilla scilloides* (Lindl.) Druce var. *albiflora* Satake in J. Jpn. Bot. **19**: 46 (1943).

*Scilla scilloides* (Lindl.) Druce f. *albiflora* (Satake) Satake & Okuyama in Okuyama in J. Jpn. Bot. **30**: 42 (1955).

Nom. Jap.: Shirobana-tsurubo.

##### Poaceae

(106–108) Following the amalgamation of *Hierochloe* with *Anthoxanthum* (Schouten and Veldkamp 1985), four combinations are needed for Japanese plants as shown below.

(106) *Anthoxanthum monticola* (Bigel.) Veldkamp f. *monstruosa* (Koidz.) Yonek., comb. nov.

*Hierochloe alpina* (Sw.) Roem. & Schult. var. *monstruosa* Koidz. in Bot. Mag. (Tokyo)

32: 63 (1918).

Nom. Jap.: O-miyama-kôbô.

(107) The taxonomy of *Anthoxanthum nitens* (= *Hierochloe odorata*) complex is varied in East Asia; numbers of recognized species varies from two (Wu and Phillips 2006) to seven (Probatova 1985). Wu and Phillips (2006) even noted the difficulty of distinguishing two species recognized, viz. *A. nitens* and *A. glabrum*. Japanese botanists have generally recognized one species *H. odorata* within this complex growing in Japan, whereas Tzvelev (1976) regarded Japanese plants as a subspecies of *H. glabra*, viz. subsp. *sachalinensis* (Printz) Tzvelev. Shirai (1997), who followed Tzvelev (1976) for taxonomy, added *H. glabra* subsp. *glabra* and *H. odorata* (s. str.) to the Japanese flora, recognizing in total three taxa. I agree with Shirai (1997) for the discrimination of Japanese taxa, but the distinction among them is often obscure due to presense of intermediate plants. Here I treat them as varieties of one species, *A. nitens*.

*Anthoxanthum nitens* (Weber) Y. Schouten & Veldkamp

var. *nitens*.

*Poa nitens* Weber, Prim. Fl. Holsat., Suppl. 2: no. 6 (1787).

*Holcus odoratus* L., Sp. Pl. 2: 1048 (1753), non *Anthoxanthum odoratum* L. (1753).

*Hierochloe odorata* (L.) P. Beauv., Ess. Agrost.: 62 & 164 (1812), "*Hierochloa*".

Nom. Jap.: Seiyô-kôbô, Yôshu-kôbô.

var. *glabrum* (Trin.) Yonek., comb. nov.

*Hierochloe glabra* Trin. in Spreng., Neue Entdeck. 2: 66 (1820).

Nom. Jap.: Hime-kôbô.

var. *sachalinense* (Printz) Yonek., comb. nov.

*Hierochloe odorata* (L.) P. Beauv. var. *sachalinensis* Printz in Skr. Kongel. Norske Vidensk. Selsk (Trondhejm) 1916(3): 8, t. 1 (1917).

*Hierochloe glabra* Trin. subsp. *sachalinensis* (Printz) Tzvelev in Novosti Sist. Vyssh. Rast. 10:

83 (1973); Zlaki SSSR: 352 (1976).

*Hielochloe odorata* (L.) P. Beauv. f. *pubescens* Krylov, Fl. Altaic.: 1553 (1914).

*Hierochloe odorata* (L.) P. Beauv. var. *pubescens* (Krylov) H. Hara in Bot. Mag. (Tokyo) 52: 233 (1938).

*Hierochloe odorata* (L.) P. Beauv. subsp. *pubescens* (Krylov) H. Hara [in Bot. Mag. (Tokyo) 52: 234 (1938), pro syn.] ex T. Koyama, Grass. Jap. Neighb. Reg.: 219 (nom.) & 510 (cum basionym), f. 79 (1987).

Nom. Jap.: Kôbô.

(108) *Anthoxanthum pluriflorum* (Koidz.) Veldkamp var. *intermedium* (Hack.) Yonek., comb. nov.

*Hierochloe alpina* (Sw.) Roem. & Schult. var. *intermedia* Hack. in Bull. Herb. Boiss. 7: 646 (1899).

*Hierochloe pluriflora* Koidz. var. *intermedia* (Hack.) Ohwi in J. Jpn. Bot. 17: 494 (1941).

Nom. Jap.: Ezo-yama-kôbô.

(109) *Sacciolepis indica* (L.) Chase, a widespread weedy species of tropical and subtropical wetlands and rice paddies, is a combination based on *Aira indica* L. (Sp. Pl. 2: 1231, in errata, 1753), a renaming of *A. spicata* L. (Sp. Pl. 1: 63, 1753), non *A. spicata* L. (l. c. 64). Although the former *A. spicata* is renamed by the author himself, it still has priority in *Sacciolepis* over *Aira indica* L. (cf. ICBN Art. 53.6 Note 3). As the correct combination at species rank was already published, combinations of infraspecific taxa (Kyoda 1988) are proposed here.

*Sacciolepis spicata* (L.) Honda ex Masam. Prelim. Rep. Veg. Yakusima: 46 (1929); Honda in J. Fac. Sci. Imp. Univ. Tokyo. sect. 3, 3(1) [Monogr. Poac. Jap.]: 261 (1930); Masam. in Mem. Fac. Sci. Agr. Taihoku Imp. Univ. sect. 6, Bot. 4 [Fl. Geobot. Stud. Yakusima]: 488 (1934); Hosok. in J. Soc. Trop. Agr. Taiwan 7: 318 (1935). = *Aira spicata* L., Sp. Pl. 1: 63 (1753), non L., l.c.: 64 (1753).

var. *spicata*.

Nom. Jap.: Hai-numeri, Hai-numerigusa.

var. **angusta** (Trin.) Yonek., comb. nov.

*Panicum angustum* Trin., Sp. Gram. Icon. Ill. 3: t. 334 (1836).

Nom. Jap.: Hoso-hainumeri.

var. **oryzetorum** (Makino) Yonek., comb. nov.

*Panicum indicum* L. var. **oryzetorum** Makino in Bot. Mag. (Tokyo) 27: 28 & (116) (1913).

*Sacciolepis oryzetorum* (Makino) Honda in Bot. Mag. (Tokyo) 37: 118 (1923).

Nom. Jap.: Numerigusa.

(110) **Sasa borealis** (Hack.) Makino & Shibata var. **viridescens** (Nakai) Yonek., comb. nov.

*Sasamorpha purpurascens* Hack. var. **viridescens** Nakai in Bot. Mag. (Tokyo) 46: 42 (1932).

Nom. Jap.: Hachijô-suzu-take.

#### Cyperaceae

(111) **Carex longirostrata** C. A. Mey. var. **tenuistachya** (Nakai) Yonek., comb. nov.

*Carex tenuistachya* Nakai in Bot. Mag. (Tokyo) 36: 127 (1922).

*Carex tenuistachya* Nakai var. **pallida** Kitag. in Bot. Mag. (Tokyo) 48: 25 (1934).

*Carex longirostrata* C. A. Mey. var. **pallida** (Kitag.) Ohwi in Acta Phytotax. Geobot. 4: 43 (1935), in Mem. Coll. Sci. Kyoto Imp. Univ. ser. B, 11(5): 392 (1936).

*Carex longirostrata* C. A. Mey. subsp. **pallida** (Kitag.) T. Koyama in Kitam. & al., Col. Ill. Herb. Pl. Jap. 3: 272 (1964), comb. nud.

Nom. Jap.: Chûzenji-suge.

(112) **Carex scita** Maxim. var. **tenuiseta** (Franch.) Yonek., comb. nov.

*Carex tenuiseta* Franch. in Bull. Soc. Philom. Paris ser. 8, 7: 43 (1895).

*Carex tenuiseta* Franch. var. **brevisquama** Koidz. in Bot. Mag. (Tokyo) 32: 54 (1918).

*Carex scita* Maxim. var. **brevisquama** (Koidz.) Ohwi in Mem. Coll. Sci. Kyoto Imp.

Univ. ser. B, 11(5) [Cyper. Jap. 1]: 322 (1936).

Nom. Jap.: Ashiboso-suge, Shirouma-suge.

(103) **Cyperus kamtschaticus** (Meinsh.) Yonek., comb. nov.

*Kyllinga kamtschatica* Meinsh. in Trudy S.-Peterburgsk. Bot. Sada 18: 229 (1901).

Nom. Jap.: Mame-kugu, Tachi-hime-kugu.

(104) **Fimbristylis cymosa** R. Br. f. **depauperata** (T. Koyama) T. Koyama [in Kitam. & al., Col. Ill. Herb. Pl. Jap. 3: 234 (1962), comb. nud.] ex Yonek., comb. nov.

*Fimbristylis spathacea* Roth var. **depauperata** T. Koyama in J. Jpn. Bot. 30: 129 (1955).

Nom. Jap.: Kujûkuri-tentsuki.

#### Orchidaceae

(105) **Dactylostylis ringens** Rchb.f. f. **punctatus** (Miyabe & Tatew.) Yonek., stat. nov.

*Dactylostylis ringens* Rchb.f. var. **punctatus** Miyabe & Tatew. in Trans. Sapporo Nat. Hist. Soc. 15(2): 49 (1937).

Nom. Jap.: Hime-uzura-hitoharan.

(106) **Phaius flavus** Lindl. f. **punctatus** (Ohwi) Hatus. [Enum. Pl. Kagoshima Pref. rev. ed.: 234 (1986), comb. nud.] ex Yonek., comb. nov.

*Phaius minor* Blume f. **punctatus** Ohwi [Fl. Jap.: 380, in nota (1953), nom. nud.] in Bull. Natn. Sci. Mus. Tokyo no. 33: 70 (1953).

Nom. Jap.: Hoshi-kei-ran.

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米倉浩司：日本とその周辺の植物に関する分類学的研究  
(2)

前報(本誌 80: 323–333, 2005)に引き続いて、「Ylist-和名学名インデックス」の更新過程で必要となった62個の新組合せを発表する。特に(66)リュウビンタイモドキ, (70)ヤブニッケイ, (81)ハクサンハタザオ, (82)ヘラハタザオ, (91)ホルトノキ, (103)タイワンハハコグサ, (107)コウボウ, (109)ヌメリグサについて

は新組合せの理由に関して解説を行った。これらのうちいくつかは、大橋広好ほか(編)新牧野日本植物図鑑(2008)の中に裸名で出ているが、その後に改訂が必要となったもの、ヤブニッケイのように考えを改めたものも含まれている。  
(東北大学植物園)